

# EXHIBIT

# 11





















Taro On Chain								
<div><div>Backlog</div><div>v0.2</div><div>By priority</div><div>By size</div><div>By Worker</div><div>Sprints</div><div>v0.1.1</div><div>v0.3</div></div>								
Filter by keyword or by field								
Title		...	Assignees	...	Status	↓ ...	+	
1	🕒 tarod: crash during minting when running v0.15.1 -- need Ind...	#100			✅ Done			
2	🕒 send+recv: add new chainwatcher (?) sub-system to watch fo...	#74	👤 guggero		✅ Done			
3	🔗 Small fixes and cleanup	#133			✅ Done			
4	🔗 multi: add new proof.Courier interface for async proof distrib...	#132			✅ Done			
5	🕒 rpc: enable ability to specify multiple assets to be minted bel...	#60			✅ Done			
6	🔗 multi: properly read split commitment roots from disk, elimin...	#156			✅ Done			
7	🔗 mssmt: fix unit test data race	#140			✅ Done			
8	🔗 multi: refactor proof file format	#134			✅ Done			
9	🚨 receive: add new chainwatcher component to watch for sends...	#81			✅ Done			
10	🔗 multi: complete new tarofregither sub-system for batched as...	#123			✅ Done			
11	🔗 multi: send utils in taroscript package	#80			✅ Done			
12	🕒 send+recv: state machine to manage send process	#85	👤 jharveyb and R...		✅ Done			
13	🔗 taro: extend RPC server with queries to list asset balances	#130			✅ Done			
14	🕒 proofs: extend proof file data structure w/ new routine to _ap...	#98	👤 guggero		✅ Done			
15	🔗 proof: add function to append state transition to proof file	#117			✅ Done			
16	🚨 misc: store optional key tweak in internal_keys table and ...	#112			✅ Done			
17	🕒 vm+addr: always use BIP 86 keys for script keys	#94	👤 bhandras		✅ Done			
18	🕒 tarod: add integration test framework	#45	👤 guggero		✅ Done			
19	🔗 tarofreighter: introduce new package to house batched send...	#113			✅ Done			
20	🔗 tarofreighter: add new ExportLog interface for committing sp...	#114			✅ Done			
21	🕒 proofs: case for bip 86 tapscript exclusion proofs is incompl...	#120	👤 guggero		✅ Done			
22	🔗 tarodb: update on disk SMT implementation to support name...	#111			✅ Done			
23	🕒 fuzzing: slice panics in TLV decoding	#59			✅ Done			
24	🕒 ms-smt: rename NodeKey to NodeHash	#82	👤 bhandras		✅ Done			
25	🔗 maintenance: more small fixes	#108			✅ Done			
26	🔗 multi: fix known fuzzing failures for asset TLV decoding	#106			✅ Done			
27	🔗 address: fix HRP validation bug on string decode	#68			✅ Done			
28	🕒 mssmt: create disk based storage interface	#39	👤 bhandras		✅ Done			
29	🕒 rpc: add new calls for Import/Export/Validation of a proof file	#47	🌐 Roasbeef		✅ Done			
30	🕒 Inrpc/walletrpc: expose pubkey import for taproot address...	#6657			✅ Done			
31	🔗 multi: add new RPC calls for ImportProof, VerifyProof, and Ex...	#77			✅ Done			
32	🔗 tarodb+tarogarden: construct+store proof files on disk for all ...	#66			✅ Done			
33	🔗 Address send utils	#67			✅ Done			
34	🕒 mssmt: optimized smt tree to reduce storage pressure	#71	👤 bhandras		✅ Done			
35	🔗 mssmt: add a compacted MSSMT type to reduce storage bur...	#78			✅ Done			

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34	🔗 mssmt: optimized smt tree to reduce storage pressure #71		👤 bhandras		✅ Done		
35	🔗 mssmt: add a compacted MSSMT type to reduce storage bur... #78				✅ Done		
36	🔗 rpc: add a DecodeAddress call #63		👤 Roasbeef		✅ Done		
37	🔗 proof: Add full proof file verification #34		👤 guggero		✅ Done		
38	🔗 bip-taro-proof-file: create encode+decode routines for the pr... #16				✅ Done		
39	🔗 multi: create on-disk storage of addresses, and new RPC call... #73		👤 bhandras		✅ Done		
40	🔗 bip-taro: implement non-inclusion proof verification+generati... #20		👤 guggero		✅ Done		
41	🔗 tarodb: use the golang-migrate library for schema creation #38				✅ Done		
42	🔗 bip-taro-proof-file: implement proof file verification #17				✅ Done		
43	🔗 vm: Implement Taro VM based on initial script version #27				✅ Done		
44	🔗 bip-taro-vm: implement initial state transition verification via ... #18				✅ Done		
45	🔗 tlv: make TLV serialization more explicit #1				✅ Done		
46	🔗 tarodb+sqlc: update sqlc version, add pragma option scaffold... #50				✅ Done		
47	🔗 asset+commitment: add new genesis signer interface, use Ke... #51				✅ Done		
48	🔗 bip-taro: fix prevID reference to factor in key families #54				✅ Done		
49	🔗 bip-taro: implement base asset issuance #19				✅ Done		
50	🔗 asset+commitment: bind to output_index and asset_type in a... #49				✅ Done		
51	🔗 assets: use Ind's new Schnorr signing API to sign asset ID #58		👤 guggero		✅ Done		
52	🔗 multi: Commitment updating and exported CommitmentKey f... #56				✅ Done		
53	🔗 assets: during asset creation check that the key family sig is ... #33		👤 guggero		✅ Done		
54	🔗 Inrpc/signrpc: add schnorr option for SignMessage RPC #6656				✅ Done		
55	🔗 assets: further bind asset ID derivation #42		👤 guggero		✅ Done		
56	🔗 bip-taro-addr: create initial implementation of the taro addres... #15		👤 jharveyb		✅ Done		
57	🔗 address: Address type and encoding #55				✅ Done		
58	🔗 assets: fully bind asset key family derivation #41		👤 guggero		✅ Done		
59	🔗 tarodb+tarogarden: add new sub-systems for batched asset ... #46		👤 Roasbeef		✅ Done		
60	🔗 multi: move more functionality into taroscript, add TxValidato... #115				✅ Done		
61	🔗 Incli+chainrpc: add chainkit RPC service with endpoints Ge... #7197				✅ Done		
62	🔗 tarod: add explicit chain fee tracking for all relevant operatio... #144		👤 positiveblue		✅ Done		
63	🔗 proofs: add additional backend checks for merkle proof verif... #143		👤 ffranr		✅ Done		
64	🔗 bip-taro+bip-taro-proof: update BIP w/ new root inclusion pr... #145		👤 guggero		✅ Done		
65	🔗 multi: support non-interactive full-value sends #159				✅ Done		
66	🔗 tarofreighter+tarodb: record and use height hint #171				✅ Done		
67	🔗 tarodb: refactor + generalize sql storage engine to support s... #174		👤 guggero		✅ Done		
68	🔗 proof: close todo, make proof verification concurrent #186				✅ Done		
69	🔗 tarodb: add Postgres support #177				✅ Done		

# Taro On Chain



 Backlog
  v0.2
  By priority
  By size
  By Worker
  Sprints
 

	Title	...
67	 tarodb: refactor + generalize sql storage engine to support sqlite+postgres #174	
68	 proof: close todo, make proof verification concurrent #186	
69	 tarodb: add Postgres support #177	
70	 tarodb+rpc: resolve name collision bug for asset creation #119	
71	 bip-taro: rename key family to asset group #142	
72	 bip-taro+proofs+commitment: account for sweep case and collectible transfer to non... #121	
73	 asset+tlv: generate Taro NUMs point for uniformity in serialization code and bonus poi... #31	
74	 addr+bip-taro-addr: extend address scheme logic to work for collectibles and also full... #99	
75	 multi: support non-interactive collectible sends #176	
76	 tarodb: fix bug in asset coin selection related to key families #182	
77	 tarogarden+proofs: proof verification includes block header verification #199	
78	 Create exclusion proofs for P2TR change addresses, prepare for script spend #206	
79	 Minting with group key #214	
80	 Add chainkit #135	
81	 proof: improve robustness of hashmail proof distribution for async send flow #164	
82	 rpc+assets: add support for issuing an asset into an existing key_family #110	
83	 taroscript: further encapsulate the discrete send methods into a single "builder" type #122	
84	 received critical error from subsystem: error fetching asset proof: sql: no rows in resu... #227	
85	 bip-taro-universe: fully specify MS-SMT structure universes and multi #178	

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84	🔗 received critical error from subsystem: error fetching asset ...	#227	👤 guggero	✅ Done		
85	🔗 bip-taro-universe: fully specify MS-SMT structure universes ...	#178	👤 Roasbeef	👁️ In review		
86	🔗 addr+rpc: add code paths for creating an address w/ a script ...	#75	👤 guggero	👁️ In review		
87	🔗 rpc+tarocli: Implement method to decode proofs into human...	#181	👤 habibitcoin	👁️ In review		
88	🔗 multi: remove existing meta field in asset TLV to replace w/ ...	#249		👁️ In review		
89	🔗 Create list batches funcitonality to enumerate asset-upd...	#272	👤 jharveyb	👁️ In review		
90	🔗 subserver: add tarod sub-server as both integrated and rem...	#485	👤 positiveblue	🏗️ In progress		
91	🔗 multi: introduce status server and sub-server manager	#442		🏗️ In progress		
92	🔗 assets: decide on if genesis asset details serialization should ...	#62	👤 halseth	🏗️ In progress		
93	🔗 bip-taro: update taro commitment uniqueness logic with addit...	#76	👤 Roasbeef	🏗️ In progress		
94	🔗 BIP updates	#210	👤 jharveyb	🏗️ In progress		
95	🔗 send: Improper re-anchoring of assets	#241	👤 ffranr	🏗️ In progress		
96	🔗 universe: add initial database and API support for base univ...	#270		🏗️ In progress		
97	🔗 minting: Add Finalize, Cancel, and ListBatches methods	#274		🏗️ In progress		
98	🔗 bip-taro+assets+vm: remove group key duplication, add expli...	#91	👤 halseth	👋 Ready		
99	🔗 [tracking] Encode internal key as minting witness	#231	👤 halseth	👋 Ready		
100	🔗 universes: better specify the canonical Universe construct	#8	👤 dstadulis and ...	👋 Ready		
101	🔗 Support multi-asset groups during the minting process	#233	👤 jharveyb	👋 Ready		